



PATENT ABSTRACTS OF JAPAN

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C02F 9/00(21) Application number: **11248336**(22) Date of filing: **02.09.1999**(71) Applicant: **ASAHI KASEI CORP**(72) Inventor: **NISHIMORI YUJI****(54) CLEANING SYSTEM FOR LAUNDRY WASTE WATER****(57) Abstract:**

PROBLEM TO BE SOLVED: To provide a system for cleaning washing waste water from laundry into a water of good quality utilizable also as washing water.

SOLUTION: A cleaning system is constituted of a first process of subjecting laundry waste water to fluidized bed type biological treatment, a second process of treating the treated water from the first process by an ultrafiltration membrane and a third process of treating

the treated water from the second process by a reverse osmosis membrane. In this case, as a microorganism carrier used in fluidized bed type biological treatment, crushed activated carbon having a fine granular shape with a mean particle size of 0.01-10 mm easy to ensure flowability and a surface area is used from an aspect of the adhesion of microorganisms and the removable capacity of an offensive smell and chromaticity component in laundry waste water. As a fluidized bed system, a system supplying and diffusing air through waste water before circulating waste water to a treatment tank packed with a microorganism carrier is pref.

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